

DEGEOVE MAY 1 4 2009 By_____

STEVEN L. BESHEAR GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ROBERT D. VANCE SECRETARY

DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601-1190
www.kentucky.gov

January 11, 2008

Mr. Jim Hamilton Bullitt County Sanitation District (BCSD) P.O. Box 818 Hillview, Kentucky 40129

Re:

BCSD Willabrooke Sanitation Wastewater

Treatment Plant Discharge Permit Renewal

KPDES No.: KY00394307

AI No.: 478

Bullitt County, Kentucky

Dear Mr. Jim Hamilton:

Your application for re-issuance is currently under review. Please provide the following in order that the Division of Water may proceed with the review.

1. Enclosed you will find revised Kentucky Pollutant Discharge Elimination System (KPDES) Form A. Please complete this form and return the form to the Division of Water (DOW) KPDES Branch no later than June 1, 2008.

Please note under Section D of the revised application (Supplemental Application Information), the number of constituents to be tested has been expanded. This data is to be collected in February, March, and May 2008 and in accordance with the Application Overview, the Supplemental Application Information Part D, and the Instructions for Completing Form A. Failure to provide this information and complete Form A will result in delay, and possibly termination, of the review.

2. Please provide a copy of a 7.5 minute USGS topographical quadrangle showing the location of the proposed wastewater treatment plant discharge as required by 401 KAR 5:005 Section 3(3). This information must be provided no later than February 12, 2008

If you have any questions please contact me by email at robert.clay@ky.gov or by phone at (502) 564-3410, extension 554.

Sincerely,

R.S. Clay Jr.

Robert S. Clay, Jr. Division of Water

Enclosure

LS:rsc



A complete application consists of this form and Form 1. For additional information, contact KPDES Branch (502) 564-3410.

APPLICATION OVERVIEW
USE

Form Ashas been developed in a modular format and/consists of at Basic Application Information packet and a

Form A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet and a "Supplemental Application Information" packet and a "Supplemental Application packet is divided into two parts. All applicants must complete Parts Aand C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete. Part B. Some applicants must also complete the Supplemental Application information packets. The following items explain which parts of Form A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

BASIC APPLICATION INFORMATION

PARTA: BASIC APPLICATION INFORMATION FOR ALL APPLICANTS!

AUI (B	esimentworksimus	સામિક ઉપલ્સાના માટે ત્યાં પ્રસ્તાના કરાવાના જ્યાં મામ	Beste Appliedion Information test	keti .
A.1.	Facility Information.			
	Facility name	BULLITT COUNTY SA	VITAMON POISTRIGT	- WILLABROOK
	Mailing Address	P. U. Box 818		
		HILLUIEW, 10	7 40129	
	Contact person	·	Eog	
	Title	DISTRICT MAN		
	Telephone number	502 - 957 - 6	140	
	Facility Address	I-65 C BM	ulci Remo	
	(not P.O. Box)	I-65 @ BROOKS, 100	7 40109	
A.2.	Applicant Informatio	on. If the applicant is different from the above,	•	
	Applicant name	SAME		
	Mailing Address)		
	, and the second			,
	Contact person			
	•			
	Title			
	Telephone number			
		owner or operator (or both) of the treatmen	t works?	
	Owner Owner	Operator espondence regarding this permit should be di	rected to the facility or the applicant	
	Facility	☐ Applicant	recicu to the lacinty of the applicant.	
Λ 3		ntal Permits. Provide the permit number of a	ny existing environmental permits tha	t have been issued to the treatment
~. . .	works (include state-is		, one and on the control of the	
	KPDES	y 00 94307	PSD	AP
	UIC	and the second	Other	
	RCRA		Other	
A.4.	Collection System In each entity and, if kno etc.).	nformation. Provide information on municipal own, provide information on the type of collections.	ties and areas served by the facility. on system (combined vs. separate) a	Provide the name and population of nd its ownership (municipal, private,
	Name	Population Served	Type of Collection System	Ownership
	I-65 and	l (NA)	SEPANDTE	BCSP
		LOAD COMMERCIAL		
÷	FNTEN CIM	* *	_	_
	Total popu	ulation served <u>/ ゆ</u>	ISSES + 1 RESIR	ENT AL

A.5.	lnd	ilan Country.				
	a.	Is the treatment works located in Indian Country?				
		☐ Yes 💢 No				
	b.	Does the treatment works discharge to a receiving water that is either in Indian Country or the through) Indian Country?	at is upstr	eam from (a	nd eventuall	y flows
•		☐ Yes No				
A.6.	ave	ow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the perage daily flow rate and maximum daily flow rate for each of the last three years. Each year's high the 12th month of "this year" occurring no more than three months prior to this application su	data mus	built to hand at be based	ile). Also pro on a 12-mon	ovide the th time period
	a.	Design flow rate O.120 mgd 2006 2007 Two Years Ago Last Year		200 g This Year	- 5-	1
	b.	Annual average daily flow rate 0.044 6.058			049	mgd
	c.	Maximum daily flow rate 0.113 0.168		0,	148	_ mgd
A.7.		ollection System. Indicate the type(s) of collection system(s) used by the treatment plant. Ch	eck all tha	at apply. Als	so estimate t	he percent
		ntribution (by miles) of each. Separate sanitary sewer			100	%
		Combined storm and sanitary sewer				- %
		Combined Storm and Samary Sewer				- ′*
A.8.	Dis	scharges and Other Disposal Methods.				
	a.	Does the treatment works discharge effluent to waters of the U.S.?		Yes		No
	ч.	If yes, list how many of each of the following types of discharge points the treatment works u	ses:	, 55		
		i. Discharges of treated effluent			X	
		-		_		·
		ii. Discharges of untreated or partially treated effluent				
		iii. Combined sewer overflow points		_		
		iv. Constructed emergency overflows (prior to the headworks)				
		v. Other		_		
	b.	Does the treatment works discharge effluent to basins, ponds, or other surface impoundmen that do not have outlets for discharge to waters of the U.S.? If yes, provide the following for each surface impoundment:	ts 🗆	Yes	×	No
		Location:				
		Annual average daily volume discharged to surface impoundment(s) mg	gd			
		ls discharge ☐ continuous or ☐ intermittent?				
	c.	Does the treatment works land-apply treated wastewater?		Yes	×	No
		If yes, provide the following for each land application site:				
		Location:				
		Number of acres:				
		Annual average daily volume applied to site: mgd				
		Is land application				
	d.	Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?		Yes	X	No

	(N)
If transport is by a pa	rty other than the applicant, provide:
Transporter name:	(NA)
Mailing Address:	
Contact person:	
Title:	
Telephone number:	<u> </u>
Mailing Address: Contact person: Title:	
Telephone number:	
If known, provide the	KPDES permit number of the treatment works that receives this discharge.
	daily flow rate from the treatment works into the receiving facility.
Provide the average of Does the treatment w	orks discharge or dispose of its wastewater in a manner not included in bove (e.g., underground percolation, well injection)?
Provide the average of Does the treatment w A.8.a through A.8.d a	orks discharge or dispose of its wastewater in a manner not included in
Provide the average of Does the treatment w A.8.a through A.8.d a If yes, provide the follows:	orks discharge or dispose of its wastewater in a manner not included in bove (e.g., underground percolation, well injection)?

a. b.	Outfall number Location	001						
b.	Location	<u> </u>						
		BROOK					109	
		(City or town, if applicable				(Zip Code)		
		(County)	m 3'	50"		(State)	42'	: ="
		(Latitude)	<u> </u>	30		(Longitude)	42	65
c.	Distance from shore (if a	applicable)		WA	ft.			
d.	Depth below surface (if a	applicable)		are.	ft.			
e.	Average daily flow rate		·		mgd	•		
f.	Does this outfall have ei periodic discharge?	ther an intermittent or a	. 🗆	Yes [N o (go to A.9.g.)		
	If yes, provide the follow	ing information:		/				
	Number of times per year	ar discharge occurs:		M)				
	Average duration of eac	h discharge:		M				
	Average flow per discha	rge:		N. P.	mgd	÷		
	Months in which dischar	ge occurs:						
g.	Is outfall equipped with a	a diffuser?	. 🗆	Yes	No No			
). Des	scription of Receiving V	Vaters.						
a.	Name of receiving water	BROOKS	RUN	e n	nick f	701 NT	4.52	
b.	Name of watershed (if k	nown) 720	705 F	FORK				
	United States Soil Cons	ervation Service 14-digit	watershed co	ode (if known):		ILNOW!	۷	
c.	Name of State Managen	nent/River Basin (if knov	vn): S <u>A</u>	T/LICKIA	of Br	HSIN MM	~ Abeu	IENT UM
	United States Geologica	l Survey 8-digit hydrolog	ic cataloging	unit code (if kno	wn):	0216	00mm	
d.	Critical low flow of receivacute	ving stream (if applicable	e): Lo.		cfs	s		

A.11.	. Des	scription of Tr	eatment.						 				
		-		n provided? (Check all that ap	h.							
•	a.	Prima		3 provided? (Secondary								
,			ınced	7		escribe:							
•	b.	Indicate the fo	ollowing remov	val rates (aś a	applicable):								
			₅ removal <u>or</u> D				<u>U</u> ^	UNKNOWN %					
		Design SS re	emoval					_	%				
		Design P ren	noval						<u> </u>				
		Design N ren	noval						%				
		Other						V	<u></u> %	•			
	c.	What type of	disinfection is	used for the	effluent from this	outfall? If disir	ifection varies l	by season, p	lease describe.				
			CITLOR	RINE									
		If disinfection	is by chlorinat	ion, is dechlo	orination used for	r this outfall?		Yes	□ No				
	d.	Does the treat	ment plant ha	ive post aerat	ion?		٠٠,	Yes	□ No				
		tfall number:	METER	<u>&</u>	01	DAILY VALUE		ΑV	ean four and one-h	ALUE			
	(A)					W. Units	Va	lue .	Units	Number of Samples			
pH (N				-	6.1	s.u.							
pH (N					- 1 D	S.U.		4		100			
Flow		e ture (Winter)			0. \$ 68	mc-o	0.	060	мно	270			
	erati	ture (Summer)			WA								
	*Fo	W. 11 11 11 11 11 11 11 11 11 11 11 11 11	AND THE RESERVE OF THE PERSON	ACCORDING TO A STATE OF THE STA	imum daily value	(34)							
		POLLUTANT			UM DAILY HARGE	AVERAGE	EDAILY DISCI	1ARGE	ANALYTICAL METHOD	ML/MDL			
				Conc	Units	Conc.	Units	Number of Samples					
			-	TIONAL CON	IPOUNDS.								
CONV	ENT	TIONAL AND N	ONCONVEN		-			20	la				
		CAL OXYGEN	BOD-5	718	m3/2	7.5	ms/2	39	SM 5210 b				
віосн	EMIC			7 18			(0)						
BIOCH DEMAI FECAL	EMIC ND (F	CAL OXYGEN Report one) LIFORM	BOD-5	340	colours	54	columb	39	5~9220				
BIOCH DEMAI FECAL	EMIC ND (F	CAL OXYGEN Report one)	BOD-5	7 18	100ml 100ml		coj wml msje						

BA	SI	CAPPLICATION INFORMATION
		ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR BENEFIT OF A PROPERTY OF A PR
Alla	ppli	cants with a design flow rate 20,1 mgd must answer guestions B.1 through B.6. All others go to Part C (Gertification).
B.1.		flow and infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. MINITIAL GPD LIEW SYSTEM / ALL PLASTIC PIPE/ALL COMMERCIAL iefly explain any steps underway or planned to minimize inflow and infiltration.
	_	
B.2.	Tr en	pographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. nis map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the litre area.) The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c.	Each well where wastewater from the treatment plant is injected underground.
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
B.3.	bac	cocess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all ckup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., orination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily wrates between treatment units. Include a brief narrative description of the diagram.
B.4.	Op	eration/Maintenance Performed by Contractor(s).
		e any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ntractor?
		es, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional ges if necessary).
	Na	me: (VA)
	ivia	iling Address:
	Tel	ephone Number:
	Re	sponsibilities of Contractor:
B.5.	uno trea	heduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or completed plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the atment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 each. (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
		OOI SEE ATTACHED
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
		☐ Yes No

BULLITT COUNTY SANITATION DISTRICT



Commissioners
Jim Hamilton
Kevin Holloway
Gary Seigle

April 29, 2008

BASIC APPLICATION INFORMATION

PART B

B.5 Scheduled Improvements and Schedule of Implementation

The BCSD Willabrook Wastewater Treatment Plant currently is rated for 120,000 gallons per day and serves commercial activity in the Brooks, Kentucky area at I-65 and Brooks Road.

Due to projected commercial development, the Plant is in the design phase to increase the treatment capacity to 520,000 gallons per day.

The preliminary Engineering Report has been submitted to the Division of Water and approved.

Proposed improvements include:

- > New Head Works
- > New Aeration Basins
- > New Clarifiers
- > Tertiary Filtration
- > Ultra-violet Disinfection
- > Post Aeration
- ➤ New Sludge Holding/Digestion Tanks
- > Phosphorous Removal

See Page 8 for anticipated Implementation Schedule

, ,							
c If the answer to B.	5.b is "Yes," brie	fly describe, incl	uding new maxim	um daily inflow	rate (if applica	ble).	
	provements plan	ned independen	itly of local, State			ementation steps list planned or actual co	
		Schedule	Ad	tual Completion	n .		
Implementation St	age	MM / DD /	YYYY MI	M / DD / YYYY			
 Begin construction 	on	05/0	1/09 _	WA			
 End construction 	1	05/0	<u>//</u> /0 _	WA			
 Begin discharge 		05/0	سلام _	On			
 Attain operations 	al level	05/01	110 _	_ EM			
e. Have appropriate	permits/clearance			•		Yes No	
Describe briefly:			mE Pl			515-N' P11	741E
	EXPECTE	in EFF	ZUENT	LIMITS	Itpose 1	BEE OOTH	INED
Applicants that dischatesting required by the sewer overflows in this methods. In addition, standard methods for pollutant scans and m Outfall Number:	rge to waters of t permitting autho s section. All info this data must co analytes not addi ust be no more th	he US must provintly for each out rmation reported mply with QA/Q ressed by 40 CF	vide effluent testing in the street of the s	effluent is disclonded on data collected of 40 CFR Part 1	harged. Do no ed through anal 136 and other a	t include information ysis conducted using appropriate QA/QC re	on combined 3 40 CFR Part 136 equirements for
POLLUTANT		M DAILY A	AVERAG	E DAILY DISCI	HARGE		
	Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
CONVENTIONAL AND NON	CONVENTIONA	COMPOUNDS).		<u>. 152, 185 - 2</u>	<u> 1988 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985</u>	
AMMONIA (as N)	13.2	ms/e	1.81	role	39	EPA 350.3	
CHLORINE (TOTAL RESIDUAL, TRC)	0.01	ms/L	0.01	ms/L	39	EPA 330.5	
DISSOLVED OXYGEN	06	mg/1	7 22	m3/0	109	EDA 3/0 1	

END OF PART B.

1.09

EPA 365.2

5.37

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
A YOU MUST COMPLETE

TOTAL KJELDAHL NITROGEN (TKN) NITRATE PLUS NITRITE

TOTAL DISSOLVED SOLIDS (TDS)

11.95

NITROGEN
OIL and GREASE
PHOSPHORUS (Total)

OTHER

BASIC APPLICATIO	NINFORMATIO	Nika				
PARTIC CERTIFICATION						
All applicants must complete the applicants must complete all applicants must complete all apply complete all apply to the fac	oplicable sections of Form tting. By signing this cert	A, as explained in the Applic fication statement, applicants	ation Ove	erview. Indicate b	elow which part	is of Form A you
Indicate which parts of I	Form A you have comple	eted and are submitting:				
Basic Application Info	rmation packet	Supplemental Application	nformation	on packet:		
/ \	I	☐ Part D (Expanded Effluent	Testing I	Data)		
	i i	☐ Part E (Toxicity Testing: E	iomonito	oring Data)		
	!	☐ Part F (Industrial User Disc	charges a	and RCRA/CERC	LA Wastes)	
	I	☐ Part G (Combined Sewer S	Systems))		
ALL APPLICANTS MUST COI	MPLETE THE FOLLOW!	NG CERTIFICATION.				
I certify under penalty of law th designed to assure that qualifie who manage the system or tho belief, true, accurate, and comp and imprisonment for knowing	ed personnel properly gath se persons directly respo plete. I am aware that the	ner and evaluate the informationsible for gathering the inform	on submi ation, the	itted. Based on me information is, to	y inquiry of the the best of my	person or persons knowledge and
Name and official title	JERRY	KENNEDY	<u> </u>	DISTRIK	MANA	GER
Signature	Sim	Kennedy				
Telephone number	802-	957 - 6140				
Date signed	5	<u>-29-08</u>				
Upon request of the permitting treatment works or identify app			sary to a	ssess wastewate	r treatment prac	tices at the

SEND COMPLETED FORMS TO:

Division of Water, KPDES Branch Inventory & Data Management Section Frankfort Office Park 14 Reilly Road Frankfort, Kentucky 40601

For additional information call: (502) 564-2225, extension 465.

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

minimum, effluent testing data mu				•						•	old.
Outfall number: (C									United State	es.)	
		DISCI	IARGE	Units					Number	ANALYTICAL	ML/ MDL
	Conc.		IVIdSS		j.	Uillis	IVIdSS	Uints	of	METHOD	
METALS (TOTAL RECOVERABLE), C	YANIDE,	PHENOI	.S, AND I	IARDNES	<u> </u>				Samples		
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM						·					
CHROMIUM											
COPPER											
LEAD						,					
MERCURY					:						
NICKEL					:						
SELENIUM		1									
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO ₃)											
Use this space (or a separate sheet) to	provide inf	ormation	on other	metals red	quested by	the pern	nit writer.				
		.,,,							-		

BULLITT COUNTY SANITATION DISTRICT



Commissioners
Jim Hamilton
Kevin Holloway
Gary Seigle

BULLITT COUNTY SANITATION DISTRICT WILLABROOK WASTEWATER TREATMENT PLANT

FLOW DIAGRAM DESCRITION

The BCSD Willabrook Plant is designed for 0.120 MGD and has averaged receiving approximately 0.05 MGD over the past three years. The Plant is designed as an Extended Aeration System.

Raw wastewater inters the plant thru a comminutor into a splitter box.

The secondary unit is divided into two (2) separate wastewater plants. The North Plant is 50,000 GPD capacity and the South Plant is 70,000 GPD capacity.

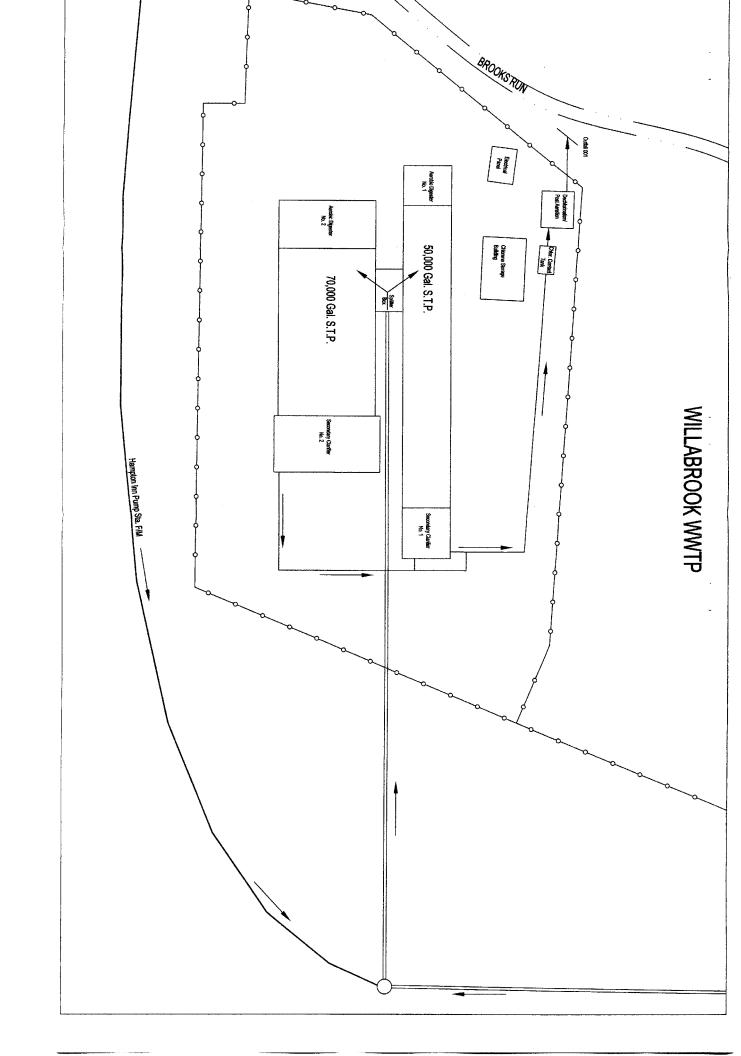
Each Plant is composed of an aeration basin, secondary clarifier and an aerobic digester. Mixed liquor from the aeration basin flows into the secondary clarifier. Settled sludge is returned to the head of the aeration basin or wasted to the digester. Clarified effluent flows to the chlorine contact basin for disinfection then to the de-chlorination basin and post aeration.

Digester decant flows back to the head of the plant. Waste sludge from the Digesters is hauled to the City of Shepherdsville Wastewater Treatment Plant for ultimate disposal.

Chlorine gas is used for disinfection along with meta-bi-sulfite solution for de-chlorination.

The Plant is scheduled for expansion to approximately 520,000 GPD and expected to go on line sometime in 2010.

P.O. Box 818 • Hillview, Kentucky • 40129 Phone: 502-957-6140 • Fax: 502-957-6140



Outfall number: (Con	nplete on	ice for e	each out	all disch	arging et				Inited States		
POLLUTANT	DISCHARGE Conc. Units Mass Units				A۱		DAILY				
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	of	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.								<u>[</u>	Samples		1 77
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											**
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE									,		
CHLOROETHANE											
2-CHLORO-ETHYLVINYL ETHER											
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE						<u> </u>					
1,1-DICHLOROETHYLENE						****					
1,2-DICHLOROPROPANE			7 11 2000							Part (Victoria)	
1,3-DICHLORO-PROPYLENE									, , , , , , , , , , , , , , , , , , , ,		
ETHYLBENZENE							-				
METHYL BROMIDE											
METHYL CHLORIDE											-
METHYLENE CHLORIDE										· · · · · · · · · · · · · · · · · · ·	
1,1,2,2-TETRACHLORO-ETHANE											
TETRACHLORO-ETHYLENE										-	
TOLUENE											

Outfall number: (Con	nplete on	ce for e	each outf	all disch	arging ef	fluent to	waters	of the U	Inited States	s.)	
POLLUTANT	N	IAXIMU DISCH	JM DAIL HARGE	Y	Ā۱	/ERAGI	E DAILY	DISCH	ARGE		
POLLUTANT	Conc.	Units	Mass	Units	·Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ME/MDL
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											
VINYL CHLORIDE											
Use this space (or a separate sheet) to	provide inf	ormation	on other	volatile or	ganic com	pounds r	equested	by the pe	ermit writer.		
ACID-EXTRACTABLE COMPOUNDS	I		L	<u> </u>		I			L		, <u>, , , , , , , , , , , , , , , , , , </u>
P-CHLORO-M-CRESOL										·	
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL											
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL									"		
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENOL											
2,4,6-TRICHLOROPHENOL											
Use this space (or a separate sheet) to p	provide info	mation	on other a	acid-extra	ctable con	pounds	requested	by the p	ermit writer.		
BASE-NEUTRAL COMPOUNDS.											
ACENAPHTHENE											
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE											
BENZO(A)ANTHRACENE											
BENZO(A)PYRENE											

Outfall number: (Con									nited States		
POLLUTANT	MAXIMUM DAILY A\ DISCHARGE Conc. Units Mass Units Conc.						DAILY				
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE											
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE								ļ			
3,3-DICHLOROBENZIDINE				ļ 							
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE		:									
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											
1,2-DIPHENYLHYDRAZINE											

•

			IM DAII						Inited States		
(OLLO IAIL)	DISCHARGE			AVERAGE DAILY DISCHARGE Conc. Units Mass Units Number							
	Conc.	Units	Mass	* Units	Conc.	∘Units≰	,Mass	A	Number of Samples	ANALYTICAL METHOD	MU MOL
FLUORANTHENE											
FLUORENE							:				
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE											
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE								,			
NAPHTHALENE										 	
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE											
PYRENE											- 22
1,2,4-TRICHLOROBENZENE											
Use this space (or a separate sheet) to	provide inf	ormation	on other	base-neu	tral compo	unds requ	ested by	the perm	nit writer.		
Use this space (or a separate sheet) to	provide inf	ormation	on other	pollutants	(e.g., pest	ticides) re	quested t	y the pe	rmit writer.		

A YOU MUST COMPLETE

SUPPLEMENTAL APPLICA			
PART E. TOXICITY TESTING D	ATA		
POTWs meeting one or more of the follow the facility's discharge points: 1) POTWs that are required to have one under 40 CF • At a minimum, these results meeting of two species), or the results the results show no appreciable. Do not include information on through analysis conducted use Part 136 and other appropriate. In addition, submit the results test conducted during the past of a toxicity reduction evaluation. If you have already submitted requested in guestion E.4.for past toxicity reduction evaluation.	wing criteria must provide the with a design flow rate great FR Part 403); or 3) POTWs in must include quarterly testing from four tests performed at le toxicity, and testing for accombined sewer overflows in sing 40 CFR Part 136 methods QA/QC requirements for state of any other whole effluent to flour and one-half years revenue, if one was conducted, any of the information requestions of the information requestions of the information requestions are available that contain all of	ter than or equal to 1:0 mgd; 2) PO equired by the permitting authority to for a 12-month period within the past least annually in the four and one-haute and/or chronic toxicity, depending the time section. All information reporteds. In addition, this data must companded methods for analytes not addition, the past four and opened toxicity tests from the past four and opened toxicity, provide any information sted in Part E, you need not submittion. If EPA methods were not used if the information requested below, the	TWs with a pretreatment program (or those of submit data for these parameters. Set 1 year using multiple species (minimum alf years prior to the application, provided gon the range of receiving water dilution, ed must be based on data collected ly with QA/QC requirements of 40 CFR diressed by 40 CFR Part 136. In the half years. If a whole effluent toxicity in on the cause of the toxicity or any results it again. Rather, provide the information I, report the reasons for using alternate they may be submitted in place of Part E.
E.1. Required Tests.			
Indicate the number of whole ended chronic E.2. Individual Test Data. Complete the one column per test (where each specific process)	acute	ed in the past four and one-half years ole effluent toxicity test conducted in the page if more than three tests	the last four and one-half years. Allow
	Test number:	Test number:	Test number:
a. Test information.			
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected	·		
Date test started			
Duration			
b. Give toxicity test methods follow	ved.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection meth	nod(s) used. For multiple gra	ab samples, indicate the number of g	grab samples used.
24-Hour composite	·		
Grab			
d. Indicate where the sample was	taken in relation to disinfection	on. (Check all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination			

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			T4			
	Test number:	Test number:	Test number:			
e.` Describe the point in the treat	ment process at which the sample was	s collected.				
Sample was collected:						
f. For each test, include whether	the test was intended to assess chror	nic toxicity, acute toxicity, or both.				
Chronic toxicity						
Acute toxicity						
g. Provide the type of test perform	med.					
Static						
Static-renewal	·					
Flow-through						
h. Source of dilution water. If la	boratory water, specify type; if receiving	ng water, specify source.				
Laboratory water						
Receiving water						
i. Type of dilution water. If salt	water, specify "natural" or type of artific	cial sea salts or brine used.				
Fresh water						
Salt water						
	sed for all concentrations in the test s	eries.				
	the test. (State whether parameter me	eets test method specifications)				
PH						
Salinity						
Temperature						
Ammonia						
Dissolved oxygen						
I. Test Results.			,L			
Acute:						
Percent survival in 100% effluent	%	%	%			
LC ₅₀						
95% C.I.	%	%	%			
Control percent survival	%	%	%			
Other (describe)						

Chronic:				
NOEC	%	%	%	
IC ₂₅	%	%	%	
Control percent survival	%	%	%	
Other (describe)				
m. Quality Control/Quality Assuran	nce.			
s reference toxicant data available?	YES NO	☐ YES ☐ NO	☐ YES ☐ NO	
Was reference toxicant test within acceptable bounds?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	
What date was reference toxicant test un (MM/DD/YYYY)?				
Other (describe)				
cause of toxicity, within the past fo	oring Test Information. If ur and one-half years, provic	you have submitted biomonitoring test inf le the dates the information was submitte	formation, or information regarding the do the permitting authority and a	
summary of the results.				
Date submitted:	(MM/DD/YYYY)			
Summary of results: (see instructi	ons)			
	END TION OVERVIEW	OF PART E. TO DETERMINE WHICH C	THER DARTS OF FOR	
REFER TO THE APPLICA		UST COMPLETE.		

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SUPPLEMENTAL APPLICATION INFORMATION PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F. **GENERAL INFORMATION:** F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? ☐ Yes F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. a. Number of non-categorical SIUs. b. Number of CIUs. SIGNIFICANT INDUSTRIAL USER INFORMATION: Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU. F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. Name: Mailing Address: Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge. Principal product(s): Raw material(s): F.6. Flow Rate. a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. ☐ continuous or ☐ intermittent

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

ystem in gamons per day (gpo) and whether the discharge is continuous or intermitte

gpd continuous or intermittent

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

	☐ Yes ☐] No	If yes, describe	e each episode.	<u>.</u>		
CR	A HAZAR	DOUS WAS	TE RECEIVED B	Y TRUCK, RA	AIL, OR DEDICATED PIP	ELINE:	
			treatment works re o (go to F.12.)	ceive or has it ir	the past three years receive	ed RCRA hazardou	is waste by truck, rail, or dedicate
.10.	Waste Tra	ansport. Metl	nod by which RCRA	waste is receiv	ed (check all that apply):		
	Truck	□R	ail Dedic	ated Pipe			
	Wasta Da	aarintian Ci	us EDA hazardaya	wasta numbar a	and amount (values or mass	anosifi unita)	
.11.		cardous Waste		waste number a	and amount (volume or mass Amount	s, specify units).	Units
	<u> </u>	ardous Yeash	<u> </u>		7 HIOGH		<u> </u>
· 							
					DIATION/CORRECTIVE VITY WASTEWATER:		
12.	Remediat	ion Waste. [Does the treatment v	vorks currently (or has it been notified that it	will) receive waste	from remedial activities?
	□ Vaa /						
	☐ res (d	complete F.13	through F.15.)		☐ No		
	Provide a	list of sites ar	nd the requested inf		F.15.) for each current and		
.13.	Provide a	list of sites ar	nd the requested info		F.15.) for each current and		originates (or is expected to
14.	Provide a Waste Or originate in	list of sites ar igin. Describe the next five	nd the requested info e the site and type o years).	of facility at which	F.15.) for each current and	ner remedial waste	
14.	Provide a Waste Or originate in Pollutant: known. (A	igin. Describe the next five state addition seatment.	e the site and type of years). zardous constituent al sheets if necessare.	of facility at which	F.15.) for each current and the the CERCLA/RCRA/or other than the certain the	ner remedial waste	
∵.14.	Provide a Waste Or originate in Pollutants known. (A Waste Trea. Is this	igin. Describent the next five	e the site and type of years). zardous constituent al sheets if necessare.	of facility at which	F.15.) for each current and	ner remedial waste	originates (or is expected to
.14.	Provide a Waste Or originate in Pollutant: known. (A Waste Tre a. Is this	igin. Describent the next five	e the site and type of years). zardous constituents al sheets if necessary	s that are receiviry).	F.15.) for each current and the the CERCLA/RCRA/or other than the certain the	ner remedial waste	
.14.	Provide a Waste Or originate in Pollutant: known. (A Waste Tre a. Is this	igin. Describent the next five	e the site and type of years). zardous constituents al sheets if necessary	s that are receivity).	F.15.) for each current and the the CERCLA/RCRA/or other than the certain the	ner remedial waste	
.14.	Provide a Waste Or originate in Pollutant: known. (A Waste Tro a. Is this Yes If yes,	igin. Describe a the next five state addition seatment. waste treated s No describe the five seatment.	e the site and type of years). zardous constituents al sheets if necessary	s that are receivery).	F.15.) for each current and the the CERCLA/RCRA/or other than the CERCLA/RCRA/OR of the CERCLA/RCRA/OR of the CERCLA/RCRA/OR or other than the CERCLA/RCRA/OR of the CERCLA/RCRA/CRA/RCRA/CRA/CRA/CRA/CRA/CRA/CRA/	ner remedial waste	
∵.14.	Provide a Waste Or originate in Pollutant: known. (A Waste Tro a. Is this Yes If yes,	igin. Describe a the next five state addition seatment. waste treated s No describe the five seatment.	e the site and type of years). zardous constituent al sheets if necessary (or will it be treated treatment (provide in	s that are receivery).	F.15.) for each current and the the CERCLA/RCRA/or other than the CERCLA/RCRA/OR of the CERCLA/RCRA/OR of the CERCLA/RCRA/OR or other than the CERCLA/RCRA/OR of the CERCLA/RCRA/CRA/RCRA/CRA/CRA/CRA/CRA/CRA/CRA/	ner remedial waste	

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SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information: a. Locations of major sewer trunk lines, both combined and separate sanitary. Locations of points where separate sanitary sewers feed into the combined sewer system. Locations of in-line and off-line storage structures. Locations of flow-regulating devices. Locations of pump stations. **CSO OUTFALLS:** Complete questions G.3 through G.6 once for each CSO discharge point G.3. Description of Outfall. Outfall number Location (City or town, if applicable) (Zip Code) (County) (State) (Latitude) (Longitude) c. Distance from shore (if applicable) Depth below surface (if applicable) ft. Which of the following were monitored during the last year for this CSO? □ Rainfall CSO pollutant concentrations ☐ CSO frequency ☐ CSO flow volume Receiving water quality f. How many storm events were monitored during the last year? G.4. CSO Events. a. Give the number of CSO events in the last year. events (actual or approx.) Give the average duration per CSO event. hours (actual or approx.)

•	c.	Give the average volume per CSO event.
		million gallons (actual or approx.)
•	d.	Give the minimum rainfall that caused a CSO event in the last year.
		inches of rainfall
G.5. I	Des	cription of Receiving Waters.
	a.	Name of receiving water:
	b.	Name of watershed/river/stream system:
		United States Soil Conservation Service 14-digit watershed code (if known):
	c.	Name of State Management/River Basin:
		United States Geological Survey 8-digit hydrologic cataloging unit code (if known):
G.6.	cso	O Operations.
	per	scribe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, manent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water ality standard).
		END OF PART G.
RE	FE	R TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM A YOU MUST COMPLETE.

Additional information, if provided, will appear on the following pages.

